

PERMANENTLY INSTALLED SWIMMING POOLS

ELECTRICAL WIRING REQUIREMENTS

2008 National Electrical Code / 2010 Residential Code of New York State

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PERMANENTLY INSTALLED SWIMMING POOLS ARE THOSE THAT ARE CONSTRUCTED IN THE GROUND OR PARTIALLY IN THE GROUND, AND ALL OTHERS CAPABLE OF HOLDING WATER WITH A DEPTH GREATER THAN 42 INCHES (1067 MM)

1) Pool Pump Receptacle (Outlet) and Wiring Method

- If a pump motor receptacle is located between 6' – 10' from the inside pool wall, the receptacle must be a single twist-lock outlet, grounded, and Ground Fault Circuit Interrupter (GFCI) protected.
- Receptacle must have a weatherproof cover that can be closed when the cord is plugged in. (In-use type cover)
- The circuit line for the pump motor must be a continuous line going directly to the panel box, and is to be isolated from all other receptacles.
- Wire for the pump motor shall not be less than #12 AWG insulated copper grounded wire, and must be in conduit. (except when entering a building the wire can change to NM) (Cannot use NM wire in conduit)
- Conduit
 - PVC – All PVC conduit* must be buried at least 18" deep
 - Metal – All Rigid Metal Conduit* must be at least 6" deep

* Wires used in conduit must be single strand wires (ex: THWN, etc - NO NM or UF CABLE in Conduit)

2) Convenience Receptacle (Outlet) and Wiring Method

- At least one (1) 15- or 20-ampere convenience receptacle must be located not closer than 6' but not further than 20' from the outside pool wall (Can be existing and/or wired with any approved wiring method)
- Convenience receptacle must be Ground Fault Circuit Interrupter (GFCI) protected.
- Must have a weatherproof cover where exposed to the weather (In-use type cover required on used, unattended, receptacles in wet locations)
- Must be separate from the pool pump receptacle wiring.
- Wiring
 - UF cable if buried must be at least 24" deep
 - PVC – All PVC conduit* must be buried at least 18" deep
 - Metal – All Rigid Metal Conduit* must be at least 6" deep

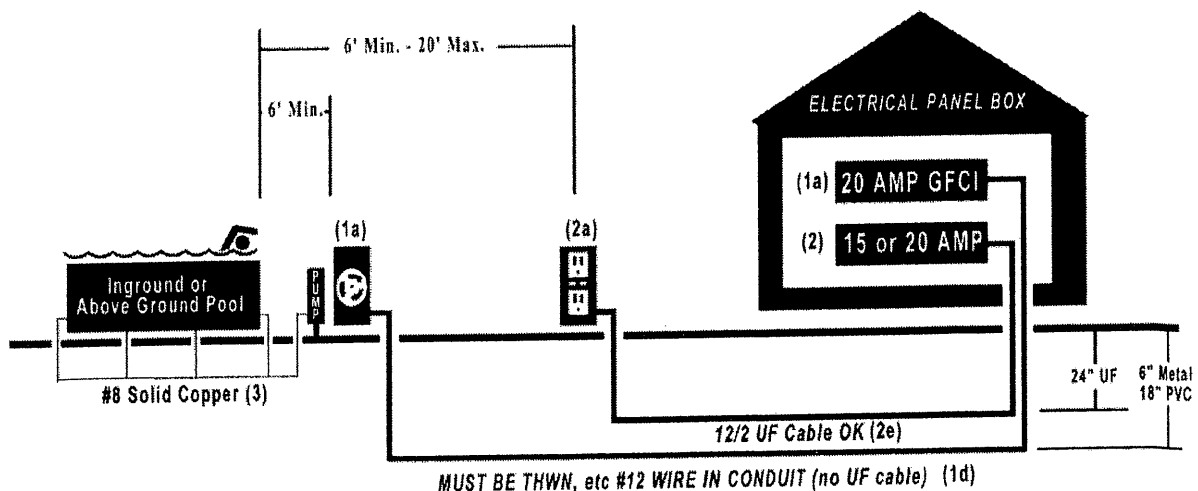
* Wires used in conduit must be single strand wires (ex: THWN, etc - NO NM or UF CABLE in Conduit)

3) Bonding The Pool

- All metal parts must be bonded together using a #8 (or larger) solid copper wire.
- Must use non-corrosive clamps.
- Conductive pool shells must be bonded in a minimum of four (4) equal points uniformly spaced around the pool
- Nonconductive pool shells must have a #8 (or larger) solid copper wire 18"-24" from the inside pool wall under the perimeter surface 4"-6" below the final grade.
- A minimum of nine (9) square inches of metal must be in the water to bond the water

4) Other

- Building Permits are required. Secure a Building Permit prior to beginning work from your municipality
- Pool Alarms are required (Check with your local Building Department for additional information)
- Pool Pump Timers (Check with your local Building Department for additional information)



PLEASE CONTACT YOUR LOCAL INSPECTOR IF YOU HAVE ANY QUESTIONS

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